

**APPLICATION  
FOR  
UNITED STATES LETTERS PATENT**

**Title:** PAINT BRUSH WITH ANGLE ADJUSTABLE HANDLE

**Inventor:** Jeffrey D. Hitzler

## **PAINT BRUSH WITH ANGLE ADJUSTABLE HANDLE**

### **CROSS REFERENCE TO RELATED APPLICATION**

This application is related to Provisional Application for Patent, App. No. 60/439,605, filed Jan. 14, 2003.

### **FIELD OF THE INVENTION**

The present invention relates to paint brushes and, more specifically to a paint brush that adjusts its angles to facilitate painting difficult and hard to reach surfaces.

### **BACKGROUND OF THE INVENTION**

The basic design of paint brushes has gone unchanged. Paint brushes typically include a plurality of bristles which are bunched together by a collar into a bristle head and attached to a rigid handle having an axis parallel to the bristles. For years the need to change the angle of a paint brush handle has been recognized. The ability to reach places or orientations not capable with a typical paint brush and handle.

The user has had to accept the capabilities of the typical handle as is. Additionally, users have cut the handle shorter to allow for better usage. New designs that are equipped with short handles address one issue only. Prior art shows attempts at creating an adjustable angle handle.

Prior art adjustable angle handle brushes were complicated in design and more difficult to manufacture. They were composed of multiple components that required sophisticated manufacturing abilities. The increase in complexity creates a product that is too expensive to market, and more difficult for the consumer to operate.

### **SUMMARY OF THE INVENTION**

In accordance with the present invention, there is provided a means by which to adjust the angle of a handle that is easy to use. A brush comprising a body having a first and second ends. A bristle head disposed at the first end of the body, and an angle adjustable handle at the second end of the body

disclosed. The handle is adapted to permit the bristle head of the brush to be positioned at angles relative to that of the handle. The body is composed of a "U" shaped component with a first end suitably shaped to be positioned within a typical ferrule. The "U" shaped component having a width equal to that of the width of the ferrule. The handle component having a first and second end. The first end is such that the diameter is sufficiently adequate to allow for movement along the "U" shaped component when the handle is unlocked. The diameter is such that to allow for sufficient clamping force upon the "U" shaped component as not to allow slippage when the handle is locked.

It is therefore an object of the invention to provide a device for the application of paints, stains, and other coatings.

It is another object of the invention to provide a paint brush handle that has angle adjustability.

It is another object of the invention to provide for a paint brush with a removable handle.

It is another object of the invention to provide a solution to the deficiencies of previously invented brushes by making it easier to paint.

It is another object of the invention to provide paint brushes wherein the painter can paint surfaces that ordinarily cannot be painted due to unusual angles or directions of brush strokes that would be required.

## BRIEF DESCRIPTION OF THE DRAWINGS

A complete understanding of the present invention may be obtained by reference to the accompanying drawings, when considered in conjunction with the subsequent, detailed description, in which:

Figure 1 is a front view of a paint brush according to the present invention.

Figure 2 is a side view of Figure 1 paint brush according to the present invention.

Figure 3 is a front view of the paint brush according to the present invention showing the adjusting movement of the handle orientation, up to 180 degrees.

Figure 4 is a side view of the paint brush according to the present invention, showing the adjusting movement of the handle orientation, up to 180 degrees.

Figure 5 is a side view of the handle component of the paint brush in Figure 1 in the unlocked

position.

Figure 6 is a front view of the "U" shaped component of the paint brush in Figure 1.

Figure 7 is an enlarged front view of the encircling section of the handle component.

#### DETAILED DESCRIPTION OF THE INVENTION

Since other modifications and changes varied to fit particular operating requirements and environments will be apparent to those skilled in the art, the invention is not considered limited to the example chosen for purposes of disclosure, and covers all changes and modifications which do not constitute departures from the true spirit and scope of this invention.

Reference is now made to the drawings wherein the present invention is illustrated and wherein in similar components bear the reference numeral throughout the several views.

In FIG. 1, a paint brush is depicted comprising a brush section 9 and a handle section 10. Brush section 9 comprises a plurality of bristles 7, which may be either artificial or natural, and a metal ferrule 3 to contain the bristles. Handle section 10 has end 8 partially encircling "U" shaped component 1 affixed to the brush. The other end comprises two legs 12 and 13, one leg 13 has a hook 5 integrally formed into it. Leg 12 has no hook 4 and terminates at a point that is long enough for it to be securely fastened into the hook 5 of leg 13.

The "U" shaped component 1 being composed of a suitable plastic material and having parallel sides creates an arc having a diameter equal to the width of the rigidly attached body 14. The arc of 1 being cylindrical in configuration with a diameter equal to the depth of the body 14 as depicted in FIG. 6. The body section 14 having a shape suitable to securely fit into a typical paint brush ferrule 3.

The handle portion 2 of section 10 being composed of a suitable plastic material and having an overall length sufficient to create a comfortable to hold component. The profile of the handle portion 2 is similar to that of a conventional paint brush as shown in FIG. 1. Handle portion 2 is comprised of two connected legs 12 and 13. The length of the legs is nearly equal. When in the unlocked position as depicted in FIG. 5 the legs 12 and 13 create a "V" shape. The angle of the "V" is to be sufficient, based upon material characteristics, to create sufficient clamping force on the "U" shaped component when the legs are locked together. To lock the legs 12 and 13 together in order to clamp the handle portion onto "U" shape 1 the ends 4 and 5 are brought together. Leg 12 with the straight end 4 is then slid into the